

18(6)

YUG/1-59-1-21/67

AUTHOR: Ceperković, Miodrag. Engineer, Director

TITLE: Preparations for Working the Kišnica Lead and Zinc Deposits

PERIODICAL: Tehnika, 1959, Nr 1, pp 60-68 (YUG)

ABSTRACT: The Kišnica Lead and Zinc deposits have been worked sporadically since 1927. The deposits are situated near the Ajvalija Mine in the Kosmet district and contain pyrites, pyrotines, arseno-pyrates, copper, lead, zinc, bismuth, silver and antimony. Recent prospecting in the area disclosed an ore-body estimated at 2.8 million tons of rich ore (5% Pb, 1% Zn, 70 g/ton Ag) and an ore-body containing 7 million tons of poor ore (2.5% Pb, 0.9% Zn and 35 g/ton Ag). Detailed calculation of the mineral content of the ore was carried out by Doctor M. Dohatha in 1952; compound interpretation of the deposits was effected by Engineer S. Rijavac and a complete paragenetic study by Engineer S. Smeykal (1956). The lead and

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Preparations for Working the Kišnica Lead and Zinc Deposits

zinc ore is found mainly in serpentine and marl rocks, although insignificant traces are also present in the andesites and quartz-biotite schists. The ore is found as solid outcrops, in veins or lentils. The mine will be opened up in two stages: 1) mining of the rich ore down to the 660 m level with an output of 150,000 tons of ore a year. For this purpose an adit will be driven to the shaft. 2) increasing the output by mining 300,000 tons of poor ore. This would give the Kišnica Mine an output of 450,000 tons of ore a year. With the Ajvalija Mine's output of 90,000 tons, the total annual output for the area would be 540,000 tons. The development and investment program for the first stage has already been approved. Details of the proposed processing, flotation and mining technology are given. A flotation plant with a capacity of 500 tons of concentrate a day will be set up at the mine,

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Preparations for Working the Kišnica Lead and Zinc Deposits

producing lead-zinc and pyrites concentrates. In the first stage of development the plant will have an annual production of: 8,865 tons of 70% lead concentrate, 1,650 tons of 47% zinc concentrate, 32,000 tons of burites concentrate and about 7,130 kg of silver. Data on the second stage of development will be given in a later paper. Work on the first stage started at the end of 1957, the mine was in partial exploitation by the middle of 1958 and should be in full operation by 1960. There are 7 diagrams, 3 maps and 2 tables.

ASSOCIATION: Olovo-cinkov rudnik "Ajvalija" ("Ajvalija" Lead and Zinc Mine)

SUBMITTED: 25 May 1958

Card 3/3

CEPERKOVIC, M., dipl. inz.

Consultations on industrial safety in the mining, metallurgy, and geology of Yugoslavia; Belgrade, 1963. Rudar glasnik no.3:85-86 '63.

1. Gen. direktor preduzece "Rudnici i zelezare Smederevo", Beograd, clan Redakcionog odbora, "Rudarski glasnik. Bulletin of Mines".

CEPICKA, A.

Promoting the further development of inventions and improvements, a higher level of standardization and better use of trade-marks and protected designs.
p. 1.

(VYNALEZY A NORMALISACE, OCHRANNE ZNAMKY, CHRANENE VZORY, Vol. 1,no. 1. July 1957, Praha, Czechoslovakia.)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, no. 12, Dec. 1957.
Uncl.

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000308020012-5

Cepicka, A.
CHEPICKA, A. [Čepicka, A.]

Invention and efficiency promotion movement in Czechoslovakia.
Izobr. v SSSR 3 no.3:33-36 Mr '58. (MIRA 11:3)

1. Predsedatel' Gosudarstvennogo upravleniya po delam izobreteniy
i normalizatsii v Praze.
(Czechoslovakia--Efficiency, Industrial)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000308020012-5"

SKALICKOVA, Olga; CEPICKA, Jan

Cerebrospinal fluid findings in congenital syphilis. Cesk. psychiat.
58 no. 3:157-161 Je '62.

1. Psychiatricka klinika KU v Praze.

(SYPHILIS CONGENITAL csf)

CEPICKA, Jan; FISCHER, Jan

Neurotic traits as a prognostic factor in enuresis in childhood.
Cesk. psychiat. 58 no.4:262-264 Ag '62.

1. Detske oddeleni psychiatricke kliniky KU v Praze.
(ENURESIS) (NEUROSES)

CEPICKA, Jan; TOMANEK, Rostislav; HORAK, Jaroslav.

Contribution of psychiatry and otorhinolaryngology to the
problem of congenital syphilis. Acta Univ. Carol. [Med.]
(Praha) 10 no.2:165-170 '64

1. Psychiatricka klinika fakulty vseobecneho lekarstvi Uni-
versity Karlovy v Praze (prednosta: prof. MUDr. Vl. Vondracek,
DrSc.); Klinika usniho, nosniho lekarstvi fakulty vseobecneho
lekarstvi University Karlovy v Praze, (prednosta: prof. MUDr.
K.Sedlacek).

CEPICKA, J.; DRABKOVA, H.

Mental disorders in phenylketonuria. Cesk. pediat. 18 no.8:
694-697 Ag '63.

1. Detske oddeleni psychiatricke kliniky fakulty vseobecneho
lekarstvi KU v Praze, prednosta prof. dr. V. Vondracek.
(PHENYLKETONURIA) (MENTAL DEFICIENCY)
(IDIOCY) (INTELLIGENCE TESTS)

DRAHOVA, H.; CEPICKA, J.

Model scheme of heredity based on the interaction of 2 recessive complementary genes. Cesk. Psychiat. 10 no. 2:73-80 Apr'64.

1. Psychiatricka klinika fakulty vseobecneho lekarstvi KU
v Praze.

*

POKORNY, Jan; KARVANEK, Milan; SMISEK, Josef; CEPICKA, Jaroslav

Determining the iodine number of fatty acids by hypohalogenites
in alkaline medium. Sbor potrav VSChT Vol.5, pt.2:93-119
'61 [publ. '62].

1. Institut fur Chemie und Untersuchung von Lebensmitteln,
Fakultat fur Lebensmitteltechnologie, Chemisch-Technolo-
gische Hochschule, Prag.

CHORVATH, Vilim, Doc., Dr.; KADLIC, Tomas., As., Dr.; CEPIK, Pavel, As., Dr.

Indications for epinephrectomy in thromboangitis. Rozhl. chir.

35 no.12:721-726 Dec 56.

1. Chirurgicka klinika Komenskeho univerzity v Bratislave,
prednosta prof. dr. K. Carsky.

(THROMBOANGITIS OBLITERANS, surg.

adrenalectomy, indic. (Cx))

(ADRENALECTOMY, in various dis.

thromboangitis obliterans, indic. (Cx))

EXCERPTA MEDICA Sec 9 Vol 13/11 Surgery Nov 59

6722. DUODENAL DIVERTICULUM - Divertikul duodéna - Čepík P. and
Dávid J. I. Chir. Klin. Lék. Fak., Univ. Komensk., Bratislava - BRATISL.
LÉK. LISTY 1959, 39(1)/6 (373-377) Tables 2

An analysis of 73 patients is presented. Seven patients were submitted to surgery.
Duodenal diverticula seem to present more diagnostic than technical difficulties.
Their incidence is greater in males, the 6th and 7th decades being the most affected.
Surgical treatment is recommended in all cases where the diverticulum causes
complaints not amenable to conservative treatment.

BENCUR, J.M.; CEPIK, P.

Contribution to the problem of duodenal diverticuli. Cesk. rentgen. 17 no.4:250-252 Jl '63.

I. I chirurgicka klinika Lekarskej fakulty UK v Bratislave,
prednosta prof. dr. K. Carsky.
(DUODENAL DISEASES) (DIVERTICULOSIS)

CEPLA, A.

On the problem of expertise in the evaluation of drunkenness. Sveik.
apsaug. 6 no.9(69):24-30 S '61.

1. Kauno Valst. medicinos instituto teismo medicinos katedra.
Katedros vedejas doc. J. Nainys.

(ALCOHOLIC INTOXICATION diag)

CAJAL, N.; CEPLEANU, M.

The effect of chicken embryonic fluids on the influenza virus.
Stud. cercet. inframicrobiol., Bucur. 6 no.3-4;419-428 July-Dec 1955.

(INFLUENZA, experimental

eff. of chick embryo allantoic, amniotic & vitelline fluids
used as diluents on pathogenicity of influenza virus for mice)

(ALLANTOIS

chick embryo allantoic fluid, eff. on influenza virus
pathogenicity for mice)

(AMNIOTIC FLUID

chick embryo amniotic fluid, eff. on influenza virus patho-
genicity for mice)

(VITELLINE FLUID

chick embryo vitelline fluid, eff. on influenza virus
pathogenicity for mice)

COPELOVICI, Y.; CEPLEANU, M.; SAMUEL, J.; CAPRARU, R.

The electrophoretic study of the sera of rats exposed to experimental infection by influenza virus and treated with cortisone.
Stud. cercet inframicrobiol., Bucur. 10 no.2:199-206 '59.

1. Comunicare presentata la Simpozionul asupra epidemiei de gripe,
Bucaresti, 4-5 decembrie 1958.

(INFLUENZA, experimental)

(CORTISONE, pharmacology)

(BLOOD PROTEINS, chemistry)

(Hemagglutination, pharmacology)

CONSTANTINESCU,N.; CAJAL,N.; BIRZU,N.; CEPLEANU,M.; ZAVATE,O.

Experimental rabies infection in the Syrian hamster. Stud.
cercet. inframicrobiol., Bucur. 11 no.1:61-72 '60.

1. Comunicare prezentata la Institutul de Inframicrobiologie al
Academiei R.P.R. in sedinta din 16 septembrie 1959.
(RABIES experimental)

CONSTANTINESCU, N.; CEPLEANU, M.; MICU, I.; BIRZU, N.; ZAVATE, O.;
MORARU, A.

Strains of the modified rabic virus, isolated from human meningo-
encephalomyelitis with a course atypical of rabies. Studii cerc
inframicrobiol Special issue-supplement to 12:167-174 '61.

1. Institutul de inframicrobiologie al Academiei R.P.R. si Institutul
de igiena, Iasi.

(HYDROPHOBIA) (ENCEPHALOMYELITIS)

CEPLEANU, M.; CAJAL, N.

Etiological studies of human cutaneous reticulosarcoma. I. Experiments in the chorioallantoic membrane of embryonated hen's egg. Studii cerc inframicrobiol Special issue-supplement to 12:279-284 '61.

1. Institutul de inframicrobiologie al Academiei R.P.R. 2. Membru al Comitetului de redactie si redactor responsabil adjunct, "Studii si cercetari de inframicrobiologie" (for Cajal).

(SKIN) (CHORIOALLANTOIS)

CAJAL, N.; CEPLEANU, M.

Virus isolated from a case of human cutaneous reticulocytoma. Rev.
sci. med. 6 no.1/2:17-20 '61.

(SKIN NEOPLASMS virology)
(SARCOMA, RETICULUM CELL virology)

CONSTANTINESCU, N.; CEPELEANU, M.; MICU, I.; BIRZU, N.; ZAVATE, O.;
MORARU, A.

Modified rabies virus strains isolated from human cases of meningo-
encephalomyelitis with an atypical course in rabies. Stud. cercet.
inframicrobiol. 12:167-174 Supplement '61.

(RABIES virology) (ENCEPHALOMYELITIS virology)
(MENINGOENCEPHALITIS virology)

CAJAL, N.; BURDUGEA, O.; MATEESCU, S.; MARINESCU, G.; CEPLEANU, M.; COPELOVICI, Y.

Evolution of several experimental virus diseases (influenza, polio-myelitis, Coxsacie virus disease, rabies, herpes) under the influence of radiophosphorus (P-32) and radioiodine (I-131). Stud. cercet. inframicrobiol. Bucur. 12 no.1:29-37 '61.

1. Comunicare prezentata la cel de-al II-lea Congres al microbiologilor maghiari, Budapest, 21-25 Septembrie 1961
(VIRUS DISEASES experimental) (PHOSPHORUS radioactive)
(IODINE radioactive)

BURDUCEA, O.; CEPLEANU, M.; CAPRARU, R.

The development of antibodies in white rats immunized against influenza, under the influence of radiations emitted by I-131 and P-32. Stud. cercet. inframicrobiol. Bucur. 12 no.1:137-142 '61.

1. Comunicare prezintata la Institutul de inframicrobiologie al Academiei R.P.R. (INFLUENZA immunology) (ANTIBODIES) (IODINE radioactive) (PHOSPHORUS radioactive) (RADIATION EFFECTS experimental)

BURDUCĂ, O.; SAMUEL, I.; CEPLEANU, M.

The electrophoretic study of sera from anti-influenza immunized rats treated with radiophosphorus ($P-32$) and radioiodine ($I-131$). Stud. cercet. inframicrobiol. 13 no.1:89-96 '62.

(INFLUENZA immunology)
(BLOOD PROTEINS chemistry)
(PHOSPHORUS radioactive)
(IODINE radioactive)

CAJAL, N.; DUMITRESCU, S.; CEPELEANU, M.; IONESCU, N.I.

Etiological investigations of human cutaneous reticulosarcoma. II.
Electron optical study of the lesions of chorioallantoic membrane in
embryonated hen eggs. Stud. cercet. inframicrobiol. 13 no.2:169-173
'62.

1. Comunicare prezentata la Institutul de inframicrobiologie al
Academiei R.P.R.
(SKIN NEOPLASMS experimental) (MICROSCOPY, ELECTRON)
(SARCOMA, RETICULUM CELL experimental)
(FETAL MEMBRANES)

SCHACHTER, A.; CAJAL, N.; CEPLEANU, M.; SORODOC, I.

Etiological investigations of Hodgkin's disease. I. Attempts to isolate an inframicrobial agent in embryonated hen egg. Stud. cercet. inframicrobiol. 13 no.2:261-267 '62.

I. Comunicare prezenta la Institutul de inframicrobiologie al Academiei R.P.R.
(HODGKIN'S DISEASE virology)

SCHACHTER, A.; CAJAL, N.; CEPELEANU, M.; SARATEANU, D.; SORODOC, Y.;
ANAGNOSTE, V.

Further data concerning the viral etiology of malignant lymphogranulomatosis (Hodgkin's disease). Stud. cercet. inframicrobiol. 13 no.4:
449-454 '62.

(HODGKIN'S DISEASE) (TUMOR VIRUSES)

CAJAL, N.; SCHACHTER, A.; CEPLEANU, M.; SORODOC, Y.; DEMETRESCU, R.;
LOTREANU, V.

Adaptation to the white mouse of an inframicrobe isolated from
Hodgkin's disease patients in chick embryos. Acta virol. 7 no.3:
284 My '63.

1. Institute of Inframicrobiology of the R.P.R. Academy, Bucharest.
(HODGKIN'S DISEASE) (TUMOR VIRUSES)

CAJAL, N.; CEPLEANU, M.; SORODOC, I.; SCHACHTER, A.; LOTREANU, V.

Cultivation in human embryo cells of a viral agent isolated
from cases of Hodgkin's disease. Acta virologica sovietica

1. Institute of Inframicrobiology, of the R.P.R. Academy,
Bucharest.

(TISSUE CULTURE) (HODGKIN'S DISEASE)
(VIRUS CULTIVATION) (TUMOR VIRUSES)

CAJAL, N.; IANCONESCU, M.; ADERCA, I.; GRUIA, M.; CEPLEANU, M.;
DANIELESCU, S.; OPRESCU, E.; CIOBANESCU, M.

Serological investigations on children vaccinated with
inactivated or live modified virus antipolio vaccines.
Rev. sci. med. § no. 1/2:11-13 '63.

(POLIOMYELITIS) (POLIOVIRUS VACCINE) POLIOVIRUS VACCINE, ORAL)

RUMANIA

CAJAL, N., Corresponding Member of the RPR Academy (Membru Corespondent al Academiei RPR), CEPLEANU, M., SCHACHTER, A., SORODOC, Y., DEMETRESCU, R. and LOTREANU, V. of the Institute of Inframicrobiology of the RPR Academy (Institutul de Inframicrobiologie al Academiei RPR), the Department of Inframicrobiology (Catedra de Inframicrobiologie) of the Medical and Pharmaceutical Institute (Institutul de Medicina si Farmacie), Bucharest, and the Medical Clinic of the "I.C. Frimu" Hospital (Clinica Medicala, Spitalul "I.C. Frimu".

"Etiologic Investigations in Hodgkin's Disease. III. Attempts at Adaptation to Laboratory Animals of the Agent Isolated in Chick Embryos."

Bucharest, Studii si Cercetari de Inframicrobiologie, Vol 14,
No 4, 1963, pp 409-416.

Abstract [Authors' English summary modified]: Eleven identical viral strains were isolated in embryonate hen eggs that had been inoculated intra-amniotically with Hodgkin products. Five of these strains were adapted to the white mouse after intranasal inoculation. A constantly lethal disease with an incubation period of four to five days was caused by the adapted mouse virus, whether administered intranasally, intraperitoneally, intracerebrally, intramuscularly, subcutaneously or intravenously. The virus was

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Bucharest, Studii si Cercetari de Inframicrobiologie, Vol 14,
No 4, 1963, pp 409-416.

detected in most of the organs of the animals who succumbed to
the experimental disease. Complement fixation with the co-antigen
obtained from the lungs of mice that died of the experimental
disease showed the presence in the isolated agent of common anti-
genic fractions with ornithosis germs.

Includes 8 figures and 8 references, of which 3 Rumanian,
3 English-language and 2 German.

2/2

RUMANIA

CEPLEANU, M., SORODOC, Y., DEMETRESCU, R., and LOTREANU, V.
of the Institute of Inframicrobiology of the RPR Academy (Insti-
tutul de Inframicrobiologie al Academiei RPR).

"Morphopathologic Alterations Produced by Measles Virus (Edmonton
Strain) in F. L. Amniotic Cells."

Bucharest, Studii si Cercetari de Inframicrobiologie, Vol 14,
No 4 , 1963, pp 427-454.

Abstract [Authors' English summary modified]: Morpho-pathological
changes produced by measles virus (Edmonton strain) in line F.L.
amniotic cells were demonstrated by hematoxylin-eosine stained
collodium film preparations. The cytopathic effect was charac-
teristic within 48 hours, consisting at first in abnormal divi-
sion of the amniotic cells and, after 72 hours, in the formation
of huge polynucleated "pseudosyncytha". Cultivation of amniotic
F.L. cells, which show an early and characteristic cytopathic
effect, is recommended as a method for the identification of
measles virus.

Includes 12 figures and 18 references, of which 8 English-
language, 1 Russian, 1 Italian and 8 Rumanian.

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RUMANIA

CAJAL, N., Corresponding Member of the RPR Academy (Membru Corespondent al Academiei RPR), CEPLEANU, Maria, SORODOC, Yolanda, LOTREANU, V. and SCHACHTER, A. of the Institute of Inframicrobiology of the RPR Academy (Institutul de Inframicrobiologie al Academiei RPR).

"Etiological Investigations in Hodgkin's Disease. IV. Cultivation in Human Embryo Cells of Virus Adapted to the White Mouse."

Bucharest, Studii si Cercetari de Inframicrobiologie, Vol 14, No 5, 1963, pp 577-581.

Abstract [Authors' English summary modified]: Attempts were made to adapt to human embryo cell cultures 5 virus strains that had been isolated from cases of Hodgkin's disease and passed through embryonate hen eggs and white mice. Two to 3 days after inoculation, the cytopathic effect appeared characterized by the presence of multiple giant cells and massive destruction of the cell layer. Inoculation of the medium from test tubes infected with the Hodgkin agent produced the lethal disease in mice and hemorrhagic lesions in chick embryos. The cytopathic effect of the five strains was identical.

Includes 4 figures, 2 tables and 9 references, of which 1 German, 1 English-language and 7 Rumanian.

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CAJAL, N.; CEPELEANU, Maria; SORODOC, Yolanda; LOTREANU, V.;
SCHACHTER, A.

Etiological research in Hodgkin's disease. IV. Cultivation
in human embryo cells of virus adapted to white mice. Stud.
cercet. inframicrobiol. 14 no.5:577-581 '63.

1. Membru corespondent al Academiei R.P.R. (for Cepleanu).
2. Comunicare prezentata la Institutul de inframicrobiologie
al Academiei R.P.R.

(HODGKIN'S DISEASE) (TUMOR VIRUSES)
(VIRUS CULTIVATION) (TISSUE CULTURE)
(NEOPLASMS, EXPERIMENTAL)

CEPLEANU, Maria; SORODOC, Yolanda; LOTREANU, V.

The study of several strains of measles virus isolated in the
Rumanian People's Republic. Studii cercet. inframicrobiol. 15
no.6:557-562 '64

Immunology

RUMANIA

616.915-085.371

CAJAL, N., CEPLEANU, Maria, and SORODOC, Yolanda, of the Institute of Inframicrobiology (Institutul de Inframicrobiologie) of the Academy of the Socialist Republic of Rumania (al Academiei Republicii Socialiste Romania).

"Specific Prophylaxis in Measles. I. The Preparation of a Vaccine with Modified Live Virus."

Bucharest, Studii si Cercetari de Inframicrobiologie, Vol 17, No 5, 66, pp 371-376.

Abstract: The preparation of an anti-measles vaccine with modified M60-5 H_uang virus on human embryo kidney cells is reported. The vaccine proved harmless for guinea pigs and white mice, and did not produce anaphylactic phenomena in guinea pigs. Anti-measles hemagglutination-inhibiting antibodies in titers of 1/640 to 1/960 were developed in the immunized animals both against the homologous strain and against the MN and Edmonston strains.

Includes 2 tables, 6 figures and 19 references, of which 4 Rumanian, 2 Russian, 2 Chinese, 2 German and 9 Western. -- Manuscript submitted 4 June 1966.

+/-

RUMANIA

616.916-085.371

CAJAL, N., CEPLEANU, Maria, SORODOC, Yolanda, IONESCU, S., GARTNER, Magda, IANOPOL, Ligia, BOGHITOIU, Gh., FRIEDMAN, O., HULUTA, Liliana, and IONESCU, Doina, of the Institute of Inframicrobiology (Institutul de Inframicrobiologie) of the Academy of the Socialist Republic of Rumania (al Academiei Republicii Socialiste Romania).

"Specific Prophylaxis in Measles. II. The Testing on Children of a Vaccine Prepared with Modified Live Virus."

Bucharest, Studii si Cercetari de Inframicrobiologie, Vol 17, No 5, 66, pp 377-387.

Abstract: An anti-measles vaccine prepared with modified live M60-5Huang virus was tested on 220 children. Only minor clinical reactions resulted, with a complete absence of rashes or convulsions. One month after vaccination serum conversion was 79.41 percent, and the titer of anti-measles hemagglutination-inhibiting antibodies varied between 1/80 and 1/320. After 4 months the corresponding values were 75 percent and 1/40 to 1/80. Thus the vaccination seems to confer a specific immunity, which so far has protected the vaccinated children against measles.

1/2

CEPLECHA, Z.

Theoretical distribution of intensity in spectra by plane grating
with triangular grooves. Biulleten astron. inst. 14 no.1:11-13
'63.

1. Astronomical Institute of the Czechoslovak Academy of Sciences,
Ondrejov.

CEPLECHA, Z.; RAJCHL, J.

The meteor spectrum with dispersion from 11 to 38 Å/mm. Biul astr
Cz 14 no.2:29-49 '63.

1. Astronomical Institute, Czechoslovak Academy of Sciences, Ondrejov.

ACC NR: AP7001704

SOURCE CODE: CZ/0092/66/017/006/0347/0354

AUTHOR: Ceplecha, Z.

ORG: Astronomical Institute of the Czechoslovak Academy of Sciences, Ondrejov

TITLE: Dynamic and photometric mass of meteors

SOURCE: Ceskoslovenska akademie ved. Byulleten' astronomiceskikh institutov Chekhoslovakii, v. 17, no. 6, 1966, 347-354

TOPIC TAGS: meteor, asteroid, comet, photometric analysis, photometric mass, digital computer/ZUSE Z-23 computer

ABSTRACT: An analysis of methods of determining meteor mass either by dynamic mass computation using the drag equation or by computing the photometric mass from the light curve obtained from two-station photographs of the meteor is presented. It is shown that the difference between the dynamic and photometric mass values cannot be explained by differences in the constants of the drag and luminosity equations alone, and that the air density and meteor velocity exponents which fit these equations for the Jacchia-Verniani-Briggs meteors are far from the theoret-

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ACC NR: AP7001704

cal values. The author rejects Verniani's results for the mean meteoroid density based on the theoretical values of exponents and substantiates his own method which is as follows: 1) three different statistical groups corresponding to three major categories of meteors, i. e. asteroid A-group, medium-density B-group, and cometary C-group are used; and 2) the meteoroid-density and heat-conductivity-and heat-capacity-function equation in computing meteoroid mean density is applied. The latter offers the possibility of making a direct comparison of bodies of known composition with other observed meteors. The author thanks Miss Jezkova for preparing data for the computer. An electronic digital ZUSE Z-23 computer of the State Institute of Heat Engineering in Prague was used. Orig. art. has: 8 figures, 2 tables, and 11 formulas. [KP]

SUB CODE: 03/SUBM DATE: 19May66/ORIG REF: 002/SOV REF: 001/
OTH REF: 006/

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CEPLECHA, ZDENEK

Meteorological Abst.
Vol.4 No. 10
October 1953
Part 1
Miscellaneous
Applications

✓ 4,10-251 551,590,25
Ceplecha, Zdenek (*Astronomical Inst. of The Charles Univ., Prague*), Double photographed
meteor, 1949 Apr. 21, Prague. *Ustřední Ústav Astronomický, Bulletin*, 3(1):13-15, Jan. 31,
1952, fig., 4 tables, 5 refs. DLC—The atmospheric logarithmic density gradient was de-
termined from the light curve with the aid of two photographs of one meteor, taken from
different places, using a microphotometer. The result is $b = -0.070$ for the height from 95 to
85 km. For the atmospheric density $\log \rho$ (95 km) $= -8.52$, $\log \rho$ (75 km) $= -6.18$.
The velocity of the meteor was 35 km. sec⁻¹. *Subject Heading:* 1. Meteor observation
2. Meteor photography 3. Atmospheric density 4. Upper atmosphere.

Caprera, 24. [steep photo] rephr. Pl. 1. Air densities. *Bulletin of the Astronomical Institute* [of the USSR], 17 issue, 4(3)15-16, 1953. 6 figs., 3 tables, 5 refs., 7 refs. Russian summary p. 55-60. Pt. 2. The photograph of breakage of Meteor 131a. *Ibid.*, 4(5):113-119, 1953. 4 figs., 2 tables, 4 refs., 6 refs. Russian summary p. 118-127. Also: Link, F., *Sondages météoriques de la haute atmosphère. [Meteorological soundings of the upper atmosphere]*. J. 1954, 4(6):165-170, 1954. 2 figs., 3 refs., 7 refs. Russian summary p. 170. DDC. Also: Link, F., *Flight height in the lower atmosphere, deduced from meteors*. (In: Kaiser, T. R. (ed.), *Meteors*. London, Pergamon Press 1955, p. 78; 7 refs.). DWD—paper 3; Form 14 double photographs taken in 1951, velocity-decelerations sizes and heights of meteors are determined. From these data the author calculated (according to a mathematical method of analysis developed in this paper) atmospheric density between 60 and 100 km. Results of the calculation are tabulated and graphically presented. Pt. 2 of the paper contains calculation in connection with various factors involved in the breakage of meteor, such as geometrical conditions, luminous phenomena, pressure on the front part, etc. An increase of atmospheric density at the height of breakage (around 60 km) is suggested as one possible explanation of the phenomenon.—Link reconsiders the photographic material used by Caprera and derives his own atmospheric density model in agreement with results obtained at Harvard. He also finds that between 80 and 100 km a temperature appears to be decreasing with lower altitude. The note in Meteors is a discussion of the results of Caprera and Link. *Subject Headings*: 1. Upper atmosphere density. 2. Meteoric exploration of atmosphere. 3. Ionospheric height determinations.—6.7.

CEMLECHA, Z.

"Meteor Photographs. II. The Photographed Breakage Of Meteor
13la." p. 113. (Bulleten Astronomicheskikh Institutov Cheskoslovaki.
Bulletin Of The Astronomical Institutes Of Czechoslovakia, Vol. A.
No. 5, Sept. 1953, Praha.)

Vol. 3, No. 3.

SC: Monthly List of East European Acquisitions, Library of Congress, March 1954, U.S.A.

CEPLUCHI, L.

"Frequencies Of Sporadic Meteors In The Years 1947, 1948, and 1949."
p. 121. (Bulleten Astronomickikh Institutov Cechoslovakii.
Bulletin of The Astronomical Institutes of Czechoslovakia. Vol. 4,
No. 5, Sept. 1951, Praha.)

Vol. 3, No. 3.
SG: Monthly List of East European Acquisitions, Library of Congress, March 1954, Unci.

CEPLECHA, Zdenek

Meteor photographs. Part 3: A reduction method of meteor negatives
[in English with summary in Russian]. Biul.astron.inst.Chekh. ř no.1:
9-13 F '54. (MLRA 7:5)

1. Astrophysical Observatory of the Czechoslovak Academy of Sciences,
Ondřejov. (Astronomical photography) (Meteors)

CEPLECHA, Zd.

Meteor photographs. Part 4: The center of a plate [in English with summary in Russian]. Biul.astron.inst.Chekh. 5 no.1:21-23 F '54.
(MLRA 7:5)

1. Astrophysical Observatory of the Czechoslovak Academy of Sciences,
Ondřejov. (Meteors)

CEPLECHA, Zd.

Meteor photographs. Part 5: Velocity outside the atmosphere [in English with summary in Russian]. Biul.astron.inst.Chekh. 5 no.3:60-63 Je '54.
(MLRA 7:6)

1. Astronomical Institute of the Czechoslovak Academy of Sciences,
Ondrejov. (Meteors)

C E P I E C H A /

8.1-175
Ceplecha, Zdenek. (*Astronomical Inst. of the Czechoslovak Academy of Sciences*). Atmospheric corrections to meteor velocities and the atmospheric density gradient. (In: Kaiser, T. R. (ed.), *Meteors*. London, Pergamon Press, 1955. p. 81-85, tables, 3 refs., 8 eqs.) DWB—
The original velocity v_∞ of a meteor may be calculated by two methods: 1) by extrapolation of the observed velocity-height dependence and 2) by the physical theory of meteors (this has been used exclusively up to the present time). A method of calculating the original velocity v_∞ and the density gradient, b , for long bright meteors is derived in the paper from the knowledge of the mean observed velocities and heights at three different points on the meteor trajectory. The Whipple formulas for the calculation of v_∞ are given. A new method of calculating the original velocity v_∞ of a meteor is derived. This can be used for photographic meteors with smooth light curves. The velocity v_m at maximum light of the meteor and the constant K_2 in the main equation of the Hoppe theory are the only values necessary for the calculation of the original velocity v_∞ , and these may be derived directly from the measured values. It is not necessary to know the atmosphere density gradient, b , for the calculation of v_∞ . The gradient b may be calculated from the Whipple formulas by means of directly measured values. Subjet Headings: 1. Meteor velocity computation. 2. Air density effects.—Author's abstract.

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m/s

CEPLECHA, Z.

Observations of the Comets Arend-Roland (1956 h) and Mrkos (1957 d). In English.
p. 7.

PUBLICATIONS. (Cekoslovenska akademie ved. Astronomicky ustav.) Praha,
Czechoslovakia, No. 34/42, 1958.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 11, Nov. 1959
uncl.

CEPLECHA, Z.

SCIENCE

Periodicals : BIULLETEM ASTRONOMICHESKIKH INSTITUTOV CHEKHOVSKYKH.
BULLETIN OF THE ASTRONOMICAL INSTITUTES OF CZECHOSLOVAKIA. Vol. 10, no. 2,
Mar. 1959

CEPLECHA, Z. The computation of Sputnik's orbit independent of time
date. in English. p. 41.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 5,
May 1959, Unclass.

CEPLECHA, Z.; RAJCHL, J.

Photographic meteors 1955 and 1956. In English. p. 133.

BULLETIN OF THE ASTRONOMICAL INSTITUTES OF CZECHOSLOVAKIA. (Ceskoslovenska akademie
ved. Astronomicky ustav) Praha, Czechoslovakia, Vol. 10, no. 4, July 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, no. 11, Nov. 1959
Uncl.

CEPLECHA, Z.; RAJCHL, J.; SENNAL, L.

New Czechoslovak meteorite "Luhy." In English. p. 147.

BULLETIN OF THE ASTRONOMICAL INSTITUTES OF CZECHOSLOVAKIA. (Cekoslovenska akademie
ved. Astronomicky ustav) Praha, Czechoslovakia, Vol. 10, no. 4, July 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 11, Nov. 1959
uncl.

TSEPLEKHA, Z. [Ceplecha, Z.]; RAYKHL', Ya. [Rajchl, J.]; SEGNAL, L.
[Sehnal, L.]

New "Luhy" meteorite in Czechoslovakia. Astron.tsir. no.203:17
Je '59. (MIRA 13:4)

1. Astronomicheskiy institut, Ondrzheyov, Chekhoslovakiya.
(Meteorites)

CERPIECH 11/2

PHASE I BOOK EXPLOITATION

CZECH/5216

Budil, Ivo, ed.

Do blízšího i vzdáleného vesmíru (into the Near and Distant Universe)
Prague, Orbis, 1960. 10,000 copies printed.

Authors: Milan Blaha, Doctor of Natural Sciences, Candidate of Physics and Mathematics, Doctor of Technical Sciences, Engineer Jan Bulovský, Professor, D.C.A., Vojtěch Černý, Doctor of Natural Sciences, Candidate of Physics and Mathematics, Candidate of Physics and Mathematics, Josef Drábek, Doctor of Medicine, Vladimír Gáth, Doctor, Docent, Doctor of Sciences, Corresponding Member of the Slovak Academy of Sciences, Doctor of Physics and Mathematics, Josef Kleczek, Doctor of Natural Sciences, Doctor of Physics and Mathematics, Milošlav Kopecký, Doctor of Natural Sciences, Candidate of Physics and Mathematics, Luboš Perek, Doctor of Natural Sciences, Candidate of Physics and Mathematics, Vladimír Vaněk, Doctor of Natural Sciences, Candidate of Physics and Mathematics, Resp. R.D. Josef Šadil.

Card-2/2a-

and Mathematics, Zdeněk Švetecký, Doctor of Natural Sciences, Candidate of Physics and Mathematics, Boris Valinský, Doctor of Natural Sciences and Vladimír Vaňsek, Doctor of Natural Sciences, Candidate of Physics and Mathematics. Resp. R.D. Josef Šadil.

PURPOSE: This book is intended for the general reader interested in astronomy, celestial mechanics, and astrophysics.

COVERAGE: The book presents in popular language and in summary form the most important achievements of science to date in the field of astronomy, celestial mechanics, and astrophysics, and notes the importance of continued progress in these disciplines and for space travel to the moon and in our solar system, and ultimately to the nearest stars and galaxies. In the section headed "About the Authors" the degrees and titles, affiliations and scientific contributions of each author are given. The text is accompanied by many diagrams, graphs, and tabular data. There are 37 photographs of various celestial bodies. No personalities are mentioned. There are 29 references, all Czech (several translations).

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THE NEAR UNIVERSE	
I. The Moon - The Nearest Cosmic Body	7
Site and density of the moon	7
Orbit of the moon around the earth	8
Phases of the moon	9
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Is the moon radioactive?	15
Surface of the moon through a telescope	16
Origin of the seas and craters of the moon	17

Card-2/2a-

TSEPLEKHA, Zdenek [Ceplecha, Zdenek] (Chekhoslovakia)

Base photographs of the Príbram meteoritic shower. Meteoritika
no.20:178-184 '61.
(Príbram, Czechoslovakia--Meteorites) (MIRA 14:5)

S/169/63/000/002/003/127
D263/D307

AUTHORS:

Ceplecha, Zd., and Pavedet, V.

TITLE:

The beginning of rapid evaporation of meteors of different dimensions

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 2, 1963, 15, abstract 2A86 (Byul. astron. in-tov Chekhoslovakii, 1961, 12, no. 5, 191-195 (Eng.; summary in Rus.))

TEXT: An expression is obtained for the height h at which rapid evaporation of meteors begins, where h is a function of meteor size. Two extreme cases are considered: sufficiently large bodies, where energy transfer occurs by thermal conduction alone, and sufficiently small bodies, when the whole kinetic energy is radiated from the surface. Graphs are given for the dependence of h on the size of stony and iron meteorites of various velocities. Data for 360 Harvard meteors, obtained with the aid of Super-Schmidt cameras, are used to compare the calculations with experimental observations. This comparison showed that the theory gives best agreement with

Card 1/2

The beginning of rapid ...

S/169/63/000/002/003/127
D263/D307

practice if it is assumed that the meteors are stony. *(Abstracter's*
note: Complete translation.)

Card 2/2

8/269/63/000/003/035/036
A001/A101

AUTHOR:

Ceplecha, Z.

TITLE:

Determination of wavelengths in meteor spectra by means of a diffraction grating

PERIODICAL:

Referativnyy zhurnal. Astronomiya, no. 3, 1963, 68, abstract
3.51.499 ("Byul. astron. in-tov Chechoslovakii", 1961, v. 12, no.6,
246 - 250, English; Russian summary)

TEXT:

The conventional method of determining wavelengths of spectral lines is inapplicable in case of obtaining meteor spectra by means of a transparent objective diffraction grating, since diffracted beams do not lie in one plane. The author proposes a precise method for determination of wavelengths for the general case of spectrum distribution along a hyperbola resulting from the intersection of a focal plane and a cone; the latter is formed by diffracted beams of different wavelengths. The proposed method calls for no preliminary determination of wavelengths of the ground lines. It is based on the introduction of a coordinate system obtained by means of zero-order spectra of three se-

Card 1/2

Determination of wavelengths in...

S/269/63/000/003/035/036
A001/A101

lected reference stars. The author cites an example of determining wavelengths of a meteor spectrum obtained on October 27, 1960, which illustrates the application of the method proposed.

[Abstracter's note: Complete translation]

S. Mayeva

Card 2/2

CEPLFCHA, Z.

Study of a bright meteor flares by means of emission curve
of growth. Biul astr Cz 15 no.3:102-112 '64.

I. Astronomical Institute, Czechoslovak Academy of Sciences,
Ondrejov.

CEPLECHA, Z.; JEZKOVA, M.; NOVAK, M.; RAJCHL, J.; SEHNAL, L.;
DAVIES, J.G..

Ondrejov double-station meteors during the IGY and
IGC. Biul astr Cz 15 no. 4:144-155 '64.

1. Astronomical Institute, Czechoslovak Academy of Sciences,
Ondrejov (for all except Davies). 2. Nuffield Radio
Astronomy Laboratories of the Manchester University (for
Davies).

(D.C.)

EWT(r)/FS(v)-3/EPF(c)/EEC(k)-2/EPF(b)-2/EPF(t)/EWG(r)/EPF(1)/FBO/EPF(1)/
 EPF/EPF(j)/T-2/EWG(a)-2/E.P(h)/EPF(bb)-2/EEC(c)-2/EPD-2/EWG(c)/FCS(k)/EPF(b)/
 AMU/5110 PI-4/Pw-4/pk-4/Pn-4/BOOK EXPLOITATION Pi-4/Ph-4/Pr-2/Ps-4/Pk-4/PI/163
 Po-4/Po-5/Po-4/Pac-4/Pn-4/IJP(e); AST/TT/WW/DD/RM/GW/BC/WK
 Barvir, Miroslav, (Engineer); Benes, Konrad, (Professor, Doctor); Boucka, Jiri,
 (Doctor); Budil, Ivo, (Graduate In Philosophy); Cepilech, Zdenek, (Candidate of
 Physical and Mathematical Sciences); Cech, Milan, (Doctor); Dolezal, Vlastimil, (Doctor);
 (Doctor); Dvorak, Antonin, (Candidate of Medical Sciences); Dvorak, Josef, (Doctor);
 Gut, Vladimir, (Candidate of Medical Sciences, Docent, Doctor); Horak, Edneck,
 (Doctor of Physical and Mathematical Sciences, Corresponding Member of the
 Czechoslovak Academy of Sciences, Professor, Doctor); Hospodar, Jan, (Doctor of
 Physical and Mathematical Sciences, Doctor); Kleecek, Josif, (Doctor); Krest,
 Emil, (Candidate of Physical and Mathematical Sciences); Kolodovsky, Milen; Koml,
 Vladimir (Doctor); Kopecky, Miloslav, (Candidate of Legal Sciences); Kribsky,
 Ladislav, (Candidate of Physical and Mathematical Sciences); Kviz, Zdenek, (Can-
 didate of Physical and Mathematical Sciences); Ledvina, Milan, (Engineer); Malek,
 Vladimir, (Doctor); Moravek, Milen, (Candidate of Medical Sciences); Mrazek,
 Jaroslav, (Candidate of Medical Sciences, Engineer); Mrazek, Jiri, (Candidate of
 Technical Sciences); Neuzil, Ludek, (Doctor); Novotny, Zdenek, (Candidate of
 Physical and Mathematical Sciences); Novotny, Zdenek, (Doctor); Pernegi, Jaroslav,
 (Doctor); Candidate of Physical and Mathematical Sciences; Pesek, Rudolf, Professor,
 Doctor, Engineer); Pipal, Miloslav, (Doctor of Technical Sciences, Corresponding
 member, of the Czechoslovak Academy of Sciences); Plavec, Miroslav, (Doctor);
 Pokorny, Zdenek, (Candidate of Physical and Mathematical Sciences, Docent, Doctor);

Card 1/2 2

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14

Ruml, Vladimir, (Candidate of Medical Sciences, Doctor); Sodil, Josef, (Doctor of Physiological Sciences); Sejnal, ladislav; Stverak, Jiri, (Doctor); Svastka, Zdenek, (Doctor); Tuma, Jaroslav, (Candidate of Physical and Mathematical Sciences, Doctor); Tysl, Vaclav, (Docent, Engineer); Ulehla, Ivan, (Candidate of Technical Sciences, Professor, Doctor); Valnicek, Petr, (Candidate of Physical and Mathematical Sciences, Doctor); Vanysek, Vladimir, (Candidate of Physical and Mathematical Sciences, Docent, Doctor); Vlasak, Marian, (Candidate of Physical and Mathematical Sciences; Doctor); Voda, Miloslav, (Engineer)

Principles of astronautics (Základy kosmonautiky) Prague, Orbis, 1964. 445 p. illus., biblio. 5000 copies printed.

TOPIC TAGS: cosmonautics, rocket, satellite, space flight, missile

PURPOSE AND COVERAGE: This publication is a popular scientific reference book for people working in cosmonautics. The book presents a survey of cosmonautics and space flight up to 1 June 1953.

TABLE OF CONTENTS:

Card 2/8

CEPLECHA, Z.

Complete data on the bright meteor 32281. Biul astr Cz 16 no.2:
88-101 '65.

1. Astronomical Institute of the Czechoslovak Academy of Sciences,
Ondrejov. Submitted October 12, 1964.

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000308020012-5

CEPLECHA, Z.; GRYGAR, J.; KOHOUTEK, L.

Spectral energy distribution of telescopic meteors. Biul
astr Cz 16 no.2:123-125 '65.

1. Astronomical Institute of the Czechoslovak Academy of Sciences,
Ondrejov and Prague. Submitted November 11, 1964.

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000308020012-5"

L 45362-66

ACC NR: AP6026467

SOURCE CODE: CZ/0092/66/017/002/0096/0098

51

AUTHOR: Ceplecha, Z.

50

B

ORG: Astronomical Institute of the Czechoslovak Academy of Sciences, Ondrejov

TITLE: Classification of meteor orbits

SOURCE: CSAV. Byul astron inst Chekhoslov, v. 17, no. 2, 1966, 96-98

TOPIC TAGS: meteor, solar system, meteor particle, meteor orbit, meteor dust
comet, short period comet, asteroid, heat conductivity/Super Schmidt lens

ABSTRACT: The author attempts to find out if recognizable groups exist among sporadic meteor orbits, and if so, if it is possible to connect them with known body groups of the solar system, and presents the following information. The classification of meteor orbits is based on orbital elements and on an additional parameter k_p , which is proportional to the log $\lambda \epsilon$ of a meteor particle. Four groups have been found among sporadic meteor orbits. Three groups, designated as A, B. and C, can be separated by using the k_p -parameter, which represents a good measure of the product of heat conductivity, density, and specific heat. The A-group has the greatest density, short-period orbits with small

Card 1/2

L 45362-66

ACC NR: AP6026467 /

eccentricities, and an ecliptical concentration. Group C has the smallest density and can be divided into two C_1 groups, with short-period orbits and an ecliptical concentration, but with greater eccentricities than for group A; and a C_2 group with long-period orbits and eccentricities close to 1, and without any ecliptic or other concentration. The group B has a density between that of the A and C groups, short-period orbits with great eccentricities, small perihelion distances, and ecliptic concentration. The group C_1 is clearly connected with short-period comets, the group C_2 with long-period comets. Group B can be connected with short-period comets. Group A is most probably related to asteroids. The number of meteors observed with Super-Schmidt camera is greatest for group A, somewhat lesser for group C (C_2 is stronger than C_1), and only small for group B. The true number of meteors in the solar system is 8 times greater in group A than in group C. The complete paper will be published in the Proceedings of the Symposium on Meteor Orbits and Dust, Cambridge, Aug. 9-13, 1965. Orig. art. has: 3 formulas. [GC]

SUB CODE: 03, 17 / SUBM DATE: 05Oct65 /

Card 2/2 *A11111*

GEPOI, I.

Maintenance and internal checking of medical syringes. Metrologia
apl 10 no.11:518-522 N '63.

CEPREST J.

Development and problems of local electrification in the
People's Republic of Serbia. p. 95. Vol. 8, no. 2, Mar./Apr. 1955. Elektroprivreda.

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, no. 2, Feb. 1956.

CEPULIC, P.; ROGINA, V.

Autonomic regulation in psychotics. Neuropsihijatrija 2 no.4
213-220 1954.

1. Iz Bolnice za zivcane i dusevne bolesti u Vrapcu.

(MENTAL DISORDERS, physiol.

blood sugar & leukocyte levels after loading with
adrenalin & insulin.(Ser))

(BLOOD SUGAR, determ.

in ment. dis. after loading with adrenalin & insulin.
(Ser))

(LEUKOCYTES, in various dis.

ment. dis., changes after adrenalin & insulin
loading. (Ser))

(EPINEPHRINE, eff.

on blood sugar & leukocytes in ment. dis. after
epinephrine & insulin loading. (Ser))

(INSULIN, eff.

same.))

CEPULIC, P.; VOMAC, V.; RUZDIC, I.

Filter paper electrophoresis in the determination of
Changes in blood protein levels in schizophrenia.
Neuropsihijatrija. 2 no.4:221-239 1954.

1. Aus dem chemischen Laboratorium des Krankenhauses Vrapce
und dem zentralen chemischen Laboratorium der Stadt Zagreb.
(SCHIZOPHRENIA, blood in,
blood protein determ. by paper electrophoresis.(Ger))
(BLOOD PROTEINS, determ.
in schizophrenia, paper electrophoresis. (Ger))
(ELECTROPHORESIS,
of blood proteins in schizophrenia, filter paper
technic.(Ger))

TOMIC-KAROVIC, K.; BELICEVIC, V.; GALINOVIC-WEISGLASS, M.; CEPULIC, P.; LISICAK, S.

Lactobacillus acidophilus and its role in the disappearance of dysenterial bacilli. Higijena 13 no.2:131-139 '61.

(SHIGELLA) (LACTOBACILLUS ACIDOPHILUS)

CEPULIC, Vladimir, Prof., dr., (Zagreb)

Discrepancy between housing conditions and incidence of tuberculosis
in Zagreb. Higijena, Beogr. 7 no.1-4:470-476 1955.

(TUBERCULOSIS, PULMONARY, statist.

housing cond. in relation to incidence (Ser))

(HOUSING

housing cond. in relation to incidence of pulm.
tuberc. (Ser))

CEPULIC, Vladimir, Prof., dr., (Zagreb)

Rapid decrease of tuberculosis in children and youth in
Zagreb. Higijena, Beogr. 7 no.1-4:591-596 1955.

(TUBERCULOSIS, statist.
in Yugosl. (Ser))

CEPULIC, Vladimir, Dr.

Important curiosities of tuberculosis epidemiology in Zagreb.
Lijec. vjes. 77 no.5-7:259-273 May-July 55.

(TUBERCULOSIS, PULMONARY, epidemiol.
in Zagreb, Yugosl., statist. (Ser))

CEPULIC, Vladimir, Prof., dr.

Dr. Auguste Rollier (1.X.1874- 30.X.1954). Lijec. vjes. 77 no.
5-7:363-364 May-July 55.

(OBITUARIES,
Rollier, Auguste (Ser))

CEPULIC, Vladimir, Dr.

Epidemiology of pulmonary cancer in Zagreb. Lijec. vjes.
77 no.8-9:392-404 Aug-Sept 55.

1. Iz Higijenskog zavoda GNOj. Bolnice za tuberkulozu u Zagrebu.
(LUNGS, neoplasma,
in Yugosl.))

CEPULIC, Vladimir, Dr.

Early diagnosis of cancer of the lung. Lijec. vjes. 77
no.10-12: 466-474 Oct-Dec 55.

1. Iz Higijenskog zavoda GNO-a i Bolnice za tuberkulozu u
Zagrebu.
(LUNGS, neoplasms,
diag., early. (Ser))

CEPULIC, Vladimir, Dr.

Effect of BCG vaccination on tuberculosis in infants and
children. Lijec. vjes. 78 no.1-2:39-46 1956.

1. Iz Higijenskog zavoda grada Zagreba i Bolnice za
tuberkulozu na Zviježdi u Zagrebu.

(BCG VACCINATION,
in Yugoslavia, decreased mortal. in inf. & child.,
statist. (Ser))

CEPULIC, Vladimir, dr.

2 phases in tuberculosis control in Zagreb. Lijecn. vjesn. 83 no.12:
1223-1239 '61.

1. Iz Zavoda za zastitu zdravlja grada Zagreba.

(TUBERCULOSIS prev & control)

CEPULYTE, V.

Basic horizons of the morainal clayey soils of the Lithuanian SSR.

p. 139 (Lietuvos TSR Mokslu akademija. Geologijos ir geografinios institutas.
Moksliniai Pranesimai. Vol. 1, 1955. Vilnius, Lithuania)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2,
February 1958

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000308020012-5

CIPURNJAK, Peter

Sanitation in Leskovac & environment. Glasn. Hig. inst., Beogr. 6 no.1-2:
4-12 Jan-June 57.

(SANITATION,

in Yugosl., of small town with its environment (Ser))

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000308020012-5"

CERAMILAC, Aleksandar, kapetan I klase, dr.

The problem of goiter in the army. Voj. san. pregl., Beogr. 11
no.7-8:317-319 July-Aug. 54. — Ane Ambrožević — REVISTA MEDICINA D'ARMED FORCES YUGOSLAVIA, no. 7-8 July-Aug. 1954.

1. Pukovska ambulanta u Otočcu.
(GOITER, prev. & control
Yugosl., armed forces personnel)
(ARMED FORCES PERSONNEL, dis.
goiter, prev. in Yugosl.)

KAMCEVSKI, Djordje, puk. dr.; JANEZIC, Olga; CEMAMILAC, Aleksandar

A case of spindle-cell carcinoma of the thyroid gland with peracute clinical course. (Carcinoma fusicellulare glandulae thyroideae). Srpski arh. celok. lek. 92 no.10:937-938. 01. 0 '64.

I. ustanova: Vojne bolnice u Skoplju (Nacelnik: puk. dr. Djordje Kamcevski); Institut za patologiju i sudsku medicinu Vojnomedicinske akademije u Beogradu (Nacelnik: puk. prof. dr. Konstantin Brankovan).

MAKSIMOVIC, Zoran B.; CERANIC, Tatjana; MARINKOVIC, Momir

Chemical and radiochemical analysis, and purification, of the heavy water taken from the RA reactor. Bul Inst Nucl 13 no.1:19-33 Ap '62.

1. The Boris Kidrich Institute of Nuclear Sciences, Hot Laboratory Department, Vinca.

MAKSIMOVIC, Zoran, dipl. fiz. hem., visi strucni saradnik (Beograd, Znaja od Nocaja 13/2); GERANIC, Tatjana, dipl. fiz. hem., asistent

Production and application of tritium. Tehnika Jug:Suppl.: Radioizotopi zrac 2 no.3:434-440b Mr '63.

1. Institut za nuklearne nauke "Boris Kidric", Beograd-Vinca.

CERANIC,T.; NIKOLIC,R.; MAKSIMOVIC,Z.; DRASKOVIC,R.

Chemical forms of ruthenium in hydrochloric acid solutions;
abstract. Glas Hem dr 27 no.9/10:512-513 '64

1. The Boris Kidric Institute of Nuclear Sciences, Hot-Lab-
ratory Department, Belgrade-Vinca.

GRANIC, V.

"Milk Production of Sheep and Goats", P. 43, (COL. GARDEN, Vol. 1,
No. 7/8, July/Aug. 1954, Belgrade, Yugoslavia)

SC: Monthly List of East European Accessions (PEAL), LC, Vol. 4, No. 3,
March 1955, Undl.

CEKANIC - ✓
YUGOSLAVIA/Farm Animals. - Small Horned Stock

Q-3

Abs Jour : Ref Zhur - Biol., No 6, 1958, No 2618⁴

Author : Coranic Vukosava, Kostic Vitomir

Inst : Not Given

Title : The Experience of Growing Twin Lambs of Ewes of the Tsigay Breed (Tsolesoobraznost' vyreshchivaniya dvoynevykh yagnyat ot matok taigayskoy porody)

Orig Pub : Stocarstvo, 1957, 11, No 5-6, 260-266

Abstract : Twin and single lambs of ewes of the Tsigay breed were grown during the suckling period under equal conditions of maintenance. Twin lambs were somewhat lagging in their development as compared with single ones. After weaning, twin lambs were provided with good conditions of nutrition, and at 7 months of age they caught up with the single ones in live weight. At 1-1½ years of age, twin and single lambs had the same live weight. The wool yield of the twin lambs did not differ from that of single lambs.

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CERANIC, V.

Comparative studies on the influence of Merino-Kracic and
Stavropolj breeds on the production characteristics of the
Yugoslav merinos. hul sc Young 9 no.4/5:123 Ag-O '64.

1. Institute of Stockbreeding of the Agricultural Faculty,
Zagreb.

~~SECRET~~

CERAR.D.

(6)

Amino acids. X. Some derivatives of optically active α -amino aldehydes. K. Balenović, N. Brešan, D. Čatarić, I. Češić, and L. Jambrišec (Univ. Zagreb, Yugoslavia). *J. Org. Chem.*, 46, 247-252 (1981). *cf. C.I.T.* 47, 8619c.

A 10-cadmund-Zetzsche reduction of about 15 g. α -phthalimidio acyl chloride in cyclohexane at 110-30° with 5% Pd-BaSO₄ until 80-90% of the caed HCl was evolved, washing the resin with Et₂O, evapg. of the Et₂O from the filtrate, and heating the vylene soln. at 0°, gave above 90% α -phthalimidio ethylene acetal. Addn. of 0.01 mole NH₄Cl to 1 mole I and 1.1 moles HCl (EtOH), in the min. amt. abs. EtOH, diln., after 1 hr. at 20°, with H₂O and a little NH₃, and Et₂O extn. gave ca. di-Et acetal. Keeping 1 mole I, 1.1 moles (CH₂)₂Cl₂, and 1.1 vol. dryvng ether 3% dry HCl at 20° for 4 days, then 0.1 vol. at 10°, dilg. H₂O, and recoueg. gave the ethylene acetal, which was crystd. from MeOH. *N,N*-*Phthaloyl*-*l*-*cysteine diethyl ester* (65% yield) m. 112°; [α]_D²⁵ = -29.9 ± 0.4° (*c* 2.16 C H₂O); sublimation at 95-100°/0.04 mm. for 1 hr. gave partial racemization; *semicarbazone*, m. 226°; *2,4-dinitrophenylhydrazone*, m. 203-4°; *di-Et acetal* (76%), m. 59°, [α]_D²⁵ = -2.7 ± 0.3° (*c* 3.7 EtOH); *ethylene mercaptal*, m. 98° (racemate, 25% yield obtained from cold MeOH) (distn. of the mother liquor at 100-70°/0.03 mm. gave 70% active oil, [α]_D 48.7 ± 0.5° (*c* 2.10 C₂H₅)). *S-Benzyl-N-phthaloyl-l-cysteine diethyl ester* (67%) m.

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110- $\bar{2}0^\circ$, $[\alpha]_D^{25} -5.0 \pm 0.5^\circ$; distn. at 180°/0.03 mm. gave partial racemization; *semicarbazone*, m. 205-6.5°; *di-Et acetal* (97%), m. 73°, $b_{25,41}^{200-20^\circ}$, $[\alpha]_D^{25} -4.7 \pm 1.4^\circ$ (c 1.5 C₆H₆); *ethylene mercaptal* (72.3%), m. 98-100°, $b_{25,41}^{250-}$, $[\alpha]_D^{25} -60.14^\circ \pm 1^\circ$ (C₆H₆). *O*-*Methyl-N-phthaloyl tyrosine aldehyde* (100%) m. 88°, $[\alpha]_D^{25} -150 \pm 1^\circ$ (c 0 EtOH); *semicarbazone*, m. 227-9°, *di-Et acetal* (81%), b_{25,41} 160°, $[\alpha]_D^{25} -108^\circ \pm 0.4^\circ$ (c 2.36 Et₂O) (distn. did not change the $[\alpha]$); *ethylene mercaptal* (80%), m. 103°, $[\alpha]_D^{25} -105 \pm 0.8^\circ$ (c 0.18 CH₂Cl₂). Refluxing the acetal with 1 mole N₂H₄·H₂O in EtOH for 30 min. removed the *N,N*-phthaloyl group as the insol. hydrazide (II) and concn. *in vacuo* of the filtrate gave the following compds. The mercaptals were similarly treated for 4 hrs., N HCl added to the mixt., and the mixt. kept at 0° to give more II; the filtrate treated with excess NH₂OH and extd. with Et₂O. *L-Alanine aldehyde di-Et acetal* (30%) b₂₅ 95-105° (bath temp.), $[\alpha]_D^{25} 17.8 \pm 0.3^\circ$ (c 1.32, N HCl); *ethylene mercaptal* (97%), b₂₅ 145-55°, $[\alpha]_D^{25} 18.5 \pm 0.2^\circ$ (c 1.98 CH₂Cl₂); *S-Benzyl-L-cysteine aldehyde di-Et acetal* (81%), b_{25,41} 135-10°, $[\alpha]_D^{25} -2.6 \pm 0.2^\circ$ (c 2.49 CH₂Cl₂); *ethylene mercaptal*, b_{25,41} 150-80°, $[\alpha]_D^{25} -10.2 \pm 1^\circ$ (c 0.92) C₆H₆). *O*-*Methyl-L-tyrosine aldehyde di-Et acetal* (86.5%), after purification on an Al₂O₃ column, b_{25,41} 100°, $[\alpha]_D^{25} -79.2 \pm 0.1^\circ$ (c 0.7 CH₂Cl₂). John W. Givens

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CIA-RDP86-00513R000308020012-5

CBHR, D.

✓ 2471. Synthesis of (-)- β -homocystine. A contribution to the
problem of the high reactivity power of cystine. K. Balenovic,
I. Jamborec, B. Gaspert, and D. Cesar. *Rec. Trav. chim. Pays-Bas*,
1956, 75, 1252-1258 (Chem. Inst., Faculty Science, Univ. Zagreb,
Yugoslavia).

G. W. CAMBRAY

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000308020012-5"

CERAR, D.

Synthesis of aminoalkylglyoxal derivatives. II. Aminoalkylglyoxal derivatives of L-alanine, D-alanine, and L-tyrosine. K. Balenović, D. Cerar, and L. Filipović (Univ. Zagreb, Yugoslavia). *J. Org. Chem.* 18, 838-71 (1953); *Zagreb*, 1957, 533M. — Addn. of 5.4 cc. 48% HBr to 5 g. (-)- α -C₆H₅(CO)₂NCHMeCOCHN₂ in 275 cc. HOAc and diiin, after 1 hr. at room temp. with 300 cc. H₂O gave 98.5% (-)-D-*Branol*, m. 66°, [α]_D²⁵ -34.7 ± 1° (c 0.14, Me₂CO).

converted in boiling C₆H₅N in 15 min. to 93% pyridinium salt (I), a hygroscopic solid, m. 85° (decompn.), [α]_D²⁵ -7.94 ± 0.1° (c 0.32, abs. EtOH). (-)-1-Bromo-3-phthalimid-4-(*p*-methoxyphenyl)butan-2-one, 100%, m. 75°, [α]_D²⁵ -177.6 ± 0.5° (c 3.26, C₆H₆); pyridinium salt, 92%, m. 215° (decompn.), [α]_D²⁵ -83.3 ± 0.6° (c 0.18, abs. EtOH). α -C₆H₅(CO)₂NCH₂CH₂COCH(C₆H₅N)₂, 100%, m. 225° (decompn.). Mixing 0.014 mole I in 15 cc. H₂O and 4 cc. EtOH with 0.014 mole *p*-Me₂NC₆H₄NO in 70 cc. EtOH, cooling to -5°, adding 0.014 mole N NaOH during 30 min., and stirring after 30 min. at -5° gave 50% L- α -C₆H₅(CO)₂NCHMeCOCH₂N(-O)C₆H₄NMe₂-*p* (II), m. 153° (from dioxane-H₂O). Similarly prep'd., α -C₆H₅(CO)₂N(CH₃)₂COCH₂N(-O)C₆H₄NMe₂-*p*, 80% m. 154°, and the α -(*O*-methyl-N-phthalimidoethyl)-L-tyrosyl analog, 92%, m. 168°. Shaking 1.5 g. II, 3.5 g. H₂O, 15 cc. 5*N* H₂SO₄, and 15 cc. Et₂O until the II was dissolved, thoroughly extg. the aq. layer, with Et₂O, washing the ext. with 5*N* H₂SO₄ and H₂O, and chromatographing on Al₂O₃ gave 80% (-)-(1-phthalimidooethyl)glyoxal, a green-yellow oil, [α]_D²⁵ -1.34 ± 0.4° (c 1.12, dry Et₂O), converted by refluxing 2 hrs. in HOAc with an equimolar amt. of α -C₆H₅(NH)₂ to 70% (+)-2-(1-phthalimidooethyl)quinoxaline, sublimed at 150°/0.01 mm., m. 119° (from EtOH), [α]_D²⁵ 9.38 ± 0.1° (c 0.85, abs. EtOH). Similarly prep'd. in 93% yield, (2-phthalimidooethyl)glyoxal (III), m. 96.5°, was converted to 78% quinoxaline, m. 143°. Soln. of 0.004 mole III and 0.01 mole C₆H₅(SH)₂ in 14 cc. 3% anhyd. HCl in dioxane and concn. to dryness after 4 days at room temp. gave 100% bis(ethylene mercaptal), m. 212°. (+)-(1-Phthalimido-2-(*p*-methoxyphenyl)ethyl)glyoxal (76% from the nitrone), b.p. 160°, [α]_D²⁵ 8.75 ± 0.5° (c 1.50, C₆H₆); quinoxaline deriv. (56%), m. 120°, [α]_D²⁵ -42.4 ± 0.9° (c 0.1, abs. EtOH); bis(ethylene mercaptal) (82%), m. 146°, or, with 1 mol. C₆H₅, m. 72° (from C₆H₆), [α]_D²⁵ -40 ± 0.6° (c 0.40, Me₂CO).

John W. Green

GORIĆ, D.

Development of blast furnaces in Jesenice. p. 169. (NOVA HEGEL/ODJKA,
Vol. 5, no. 3/4, Sept. 1954, Ljubljana, Yugoslavia)

SO: Monthly List of East European Acquisitions, (SAL), 15, Vol. 4, no. 4,
Apr 1955, Uncl.

γ-Polyoxo compounds. V. Reaction of $\alpha,\gamma,\beta,\beta$ -tetraketones with selenium dioxide. K. Balenović, D. Česar, and L. Češić. *J. Cryst. Chem.*, Yugoslavia, 10, 15-50-61 (1954); cf. preceding abstr.—(BzCH₂CO)₄ (3 g.) refluxed 24 hrs. in 30 cc. dioxane with 2.4 g. SeO₂ gives 29%

$\text{Se}(\text{COR})\text{C}(\text{OH})\text{C}(\text{OH})\text{CCOR}$ (I, R = Ph) (Ia), bright orange prisms, m. 165°, subliming 140-60°/0.02 mm. Methylation of 0.5 g. Ia with CH₃N₃ at 20° and chromatographic purification give 60% IIa in *di-Me ether* (II), yellow prisms, m. 87°, which, refluxed with 45% HBr in AcOH, gives I again. Heating 0.2 g. II in 10 cc. MeOH with 2,4-dinitrophenylhydrazine (III) in MeOH gives 99% *bis-2,4-dinitrophenylhydrazone* of II, red prisms, m. 202°. Treating 0.85 g. II with 1 cc. (CH₃Si)₂ in 10 cc. 3% anhyd. HCl in dioxane 2 weeks gives 87% thionereaptone deriv., needles, m. 172°. Treating II similarly with (CH₃Si)₂ gives only unchanged Ia. Passing Cl into 0.5 g. II in 10 cc. CCl₄ 15 min. at 0° gives 82% II dichloride, lemon-yellow needles, m. 69° (decompn.), which (0.2 g.), treated with 0.24 g. Zn dust in 10 cc. CCl₄, gives 71% II. When 0.3 g. II is oxidized in 5 cc. AcOH with 1.5 g. CrO₃ in 3 cc. AcOH 1 hr. at 60°, 1.85 moles BzOH is obtained. Heating 0.5 g. Ia in 3 cc. AcO contg. a trace of conc. H₂SO₄ gives 82% *3,4-diacetate*, needles, m. 135°, which with III gives 100% *bis-2,4-dinitrophenylhydrazone*, red crystals, m. 253°. Similar to the prepn. of Ia the following I are prepd. (R, % yield, and m.p. given): *p-C₆H₅C₆H₄*, 4I, 100-1%; *p-MeOC₆H₄*, 1I, 117°; *I-C₆H₄*, 3I, 205°; *2-C₆H₅*, 2I, 195°; *Me₂CHCH₃* (IV), 2I, 176°; *EtO*, 8, 115°. IV (330 mg.) treated with 4.4 cc. N NaOH 1 hr. at 21° gives 106 mg. of a Se-free compd. The reaction mechanism is discussed.
F. E. Brauns